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DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

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March 4, 1991

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DIVISION OF
OIL, GAS & MINING

Mr. Robert J. Ramsey, General Manager
Barney's Canyon Mine
P.O. Box 311
Bingham Canyon, Utah 84006-0311

RE: Ground Water Discharge Permit

Dear Mr. Ramsey:

Thank you for escorting Mack Croft and Lyle Stott on an inspection of the leach pads February 12, 1991. We feel it was very productive and offered an opportunity for discussions.

We have examined your submittal for a Ground Water Discharge Permit Application and find that we need some additional items, as a minimum, for further review as listed below:

1. Plans, drawings and cross sections of future pad BC-3.
2. Logs of pits or auger holes, sieve analysis, etc. that describe deposits that underlie the base of pad BC-3, so we can estimate the stability and permeability of the material the pad is built on.
3. Copies of all water analyses of monitoring wells, Copperton and company supply wells and springs within about 1 mile radius of the site boundary, so we can inspect for changing trends in water quality and have a suitable base for ground water classification.
4. Copies of any pump test or drawdown data for water supply wells or monitoring wells near the site. I believe we have copies of the drillers logs and the available geophysical logs.
5. A detailed water table map of the site, showing locations of all pads, ponds, monitoring and supply wells.

Mr. Robert J. Ramsey, General Manager

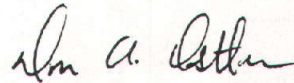
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When water is found in the Barney's Canyon pit, water samples should be collected and analyzed for TDS, the common constituents such as Na, Ca, K, Cl, SO₄ and HCO₃, and the metals for which there are ground water quality standards. The Bureau will need to review this information. If the water is of better or similar quality to ground water in the vicinity of the proposed discharge, and for areas where the water will re-enter the near surface aquifer, this operation will not need to be covered by a ground water permit. Also, if you can satisfactorily demonstrate that the water will not leave your property, even during storm events, a UPDES discharge permit will not be required. However, if this is not the case, a UPDES permit will be required and treatment of the discharge for effective removal of total suspended solids as a minimum may be necessary. Please contact Steve McNeal if you have further questions regarding this particular issue.

If you have any questions regarding the ground water permit, call Mack Croft at 538-6146.

Sincerely,



Don A. Ostler, P.E., Director
Bureau of Water Pollution Control

DAO:MGC:rp

cc: DOGM
Salt Lake City Co. Health Department

Q:BARNEYCN.LTR